



EXPRESS MAIL NO. EL 755725065US

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Christen M. Anderson et al.
Application No. : 09/809,827
Filed : March 16, 2001
For : PRODUCTION OF ADENINE NUCLEOTIDE TRANSLOCATOR (ANT),
NOVEL ANT LIGANDS AND SCREENING ASSAYS THEREFOR

Art Unit : 1653
Docket No. : 660088.420D6
Date : May 30, 2001

Commissioner for Patents
Washington, DC 20231

FILING FORMAL DRAWINGS

Commissioner for Patents:

In response to the Notice to File Corrected Application Papers dated May 15, 2001,
enclosed are 14 sheets of formal drawings, Figures 1A-19, for filing in the above-identified application.

Respectfully submitted,
Christen M. Anderson et al.
Seed Intellectual Property Law Group PLLC

Stephen J. Rosenman, Ph.D.
Registration No. 43,058

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Enclosures:

Formal Drawings (14 sheets, Figs. 1A-19)

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ANT1m ATGGGTGATCACGCTTGGAGCTTCTAAAGGACTTCCTGGCCGGGGCGTCCCGGTGCCGTCTCCAAGACCGCGGTGC 80
ANT2m ATGACAGATGCCGCTGTGTCTTCGCCAAGGACTTCCTGGCAGGTGGAGTGGCCGAGCCATCTCCAAGACGGCGGTAGC 80
ANT3m ATGACGGAACAGGCCATCTCCTTCGCCAAGGACTTCTGGCCGAGGCATCGCCGCGCCATCTCCAAGACGGCGGTGC 80

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ANT2m CCCCATCGAGCGGGTCAAGCTGCTGCTGCAGGTCCAGCATGCCAGCAAGCAGATCACTGCAGATAAGCAATACAAAGGCA 160
ANT3m TCCGATCGAGCGGGTCAAGCTGCTGCTGCAGGTCCAGCATGCCAGCAAGCAGATCGCCGAGAAAGCAGTACAAAGGCA 160

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ANT2m TTATAGACTGCGTGGTCCGTATCCCAAGGAGCAGGAAGTCTGTCTTCTGGCGGGTAACCTGGCCAAATGTCATCAGA 240
ANT3m TCGTGGACTGCAATGTCCGATCCCAAGGAGCAGGGCGTCTGTCTTCTGGAGGGGAACCTTGCCAAAGTCATTCCG 240

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ANT2m TACTTCCCCACCAAGCTCTCAACTTCGCCTTCAAGGATAATACAAGCAGATCTTCTGGGTGGTGTGACAAGAGAAC 320
ANT3m TACTTCCCCACTCAAGCTCTCAACTTCGCCTTCAAGGATAAGTACAAGCAGATCTTCTGGGGGTGTGGACAAGCAC 320

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ANT2m CCAGTTTGGGTCTACTTTGCAGGGAATCTGGCATGGTGGTGGCGAGGGGCCAATCCCTGTGTTTGTGTACCCTC 400
ANT3m GCAGTTCTGGGTACTTTGGGCAACCTGGGTCCGGTGGTGGCGGGGGAACCTCCCTGTGCTTGTGTACCCGC 400

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ANT3m TGGATTTGCCAGAACCCGCTGGCAGCGAGGTGGGAAGTCAAGCAAGAGCGGAGTTCGAGGCCTGGGAGACTGC 480

Fig. 1A

ANT1m ATCATCAAGATCTTCAAGTCTGATGGCTTGAAGGGCTCTACCAGGGTTTCAACGTCTCTGTCCAGGCATCATTTATCTA 557
 ANT2m CTGGTTAAGATCTACAAATCTGATGGATTAGGGCCTGTACCAAGGCTTTAACGTCTCTGTGCAGGGTTATATCATCTA 560
 ANT3m CTGGTTAAGATCTACCAAGTCCGACGGCATCCGGGCCTGTACCAGGGCTTCAAGTCTCCGTGCAGGGCATCATCATCTA 560

ANT1m TAGAGTTGCCTACTTCGGAGTCTATGATACTGCCAAGGGATGCTGCCGTGACCCCAAGAAGCTGCACATTTTGTGAGCT 637
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 ANT2m GGATGATCGCACAGACTGTCACTGCTGTTGCCGGTTTCACTTCCTATCCATTTGACACTGTTCCGCCCGCATGATGATG 720
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ANT1m CAGTCCGGCCGAAAGGGCGGATATATGTACACGGGACAGTTGACTGCTGGAGGAAGATTGCAATAGACGAAGGAGC 797
 ANT2m CAGTCCGGGCGAAAGGAATGACATCATGTACACAGGCAAGCTTGACTGCTGGCGGAAGATTGCTGGTGATGAAGGAGG 800
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ANT1m TCAAAATATGTCTAA 894
 ANT2m TCAAGAAGTACATAA 897
 ANT3m TCAAGAAGTGATCTAA 897

Fig. 1B

HANT1p	MDHAFSLKDFLAGVAAAVSKTAVAPIERVKLLQVQHASKQISAEKQ	50
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HANT3p	MTEQALSFADFLAGGIAAAISKTAVAPIERVKLLQVQHASKQITADKQ	50
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HANT2p	YKGIIDCVVRIPKEQVLSFWRGNLANVIRYFPTQALNFAFKDKYKQIFL	100
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HANT2p	GGVDKHTQFWRYFAGNLASGGAAGATSLCFVYPLDFARTRLAADVGRRA	150
HANT3p	GGVDKHTQFWRYFAGNLASGGAAGATSLCFVYPLDFARTRLAADVGRRA	150
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HANT2p	EREFHGLGDCIKIKFSDGIRGLYQGFNVSVQGIITYRAAYFGVYDTAKG	200
HANT3p	EREFHGLGDCIKIKFSDGIRGLYQGFNVSVQGIITYRAAYFGVYDTAKG	200
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HANT2p	YTGTVDCWRKIARDEGGKAFFKGAWSNVLRGMGGAFVLVLYDEIKKYT	299
HANT3p	YTGTVDCWRKIARDEGGKAFFKGAWSNVLRGMGGAFVLVLYDEIKKYI	299

Fig. 2

Title: PRODUCTION OF ADENINE NUCLEOTIDE TRANSLOCATOR (ANT), NOVEL ANT LIGANDS AND SCREENING ASSAYS THEREFOR

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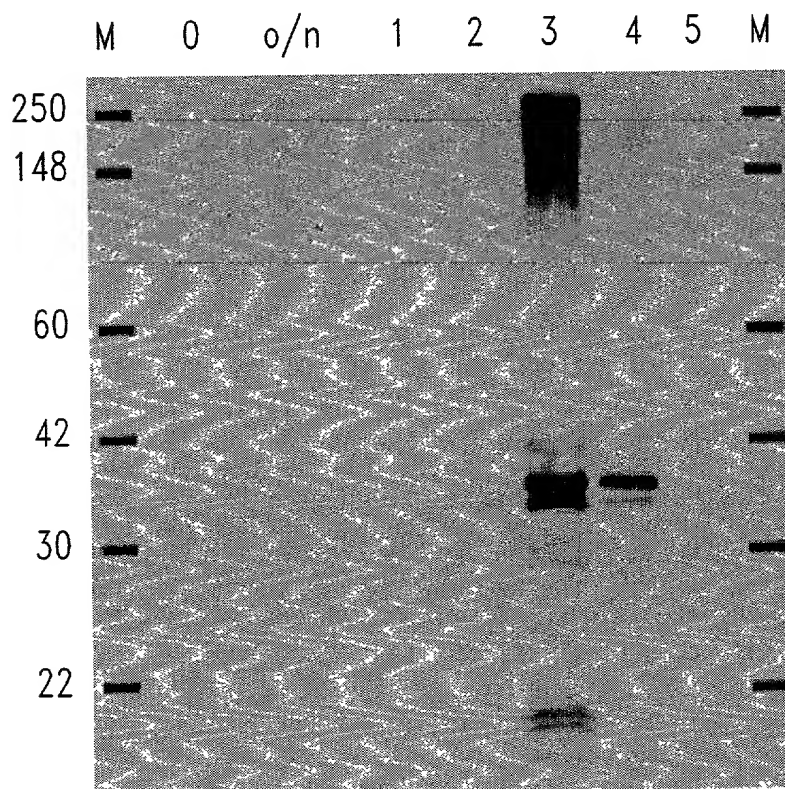


Fig. 3

Title: PRODUCTION OF ADENINE NUCLEOTIDE TRANSLOCATOR (ANT), NOVEL ANT LIGANDS AND SCREENING ASSAYS THEREFOR

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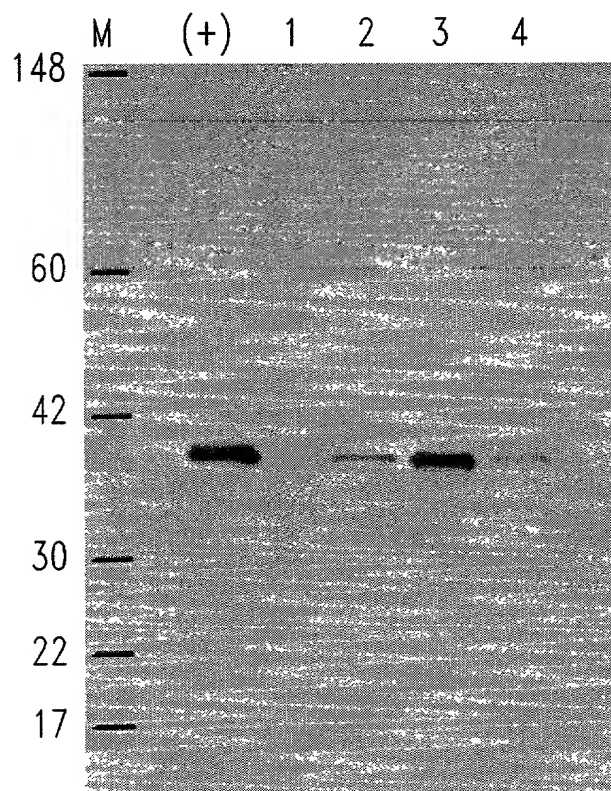


Fig. 4

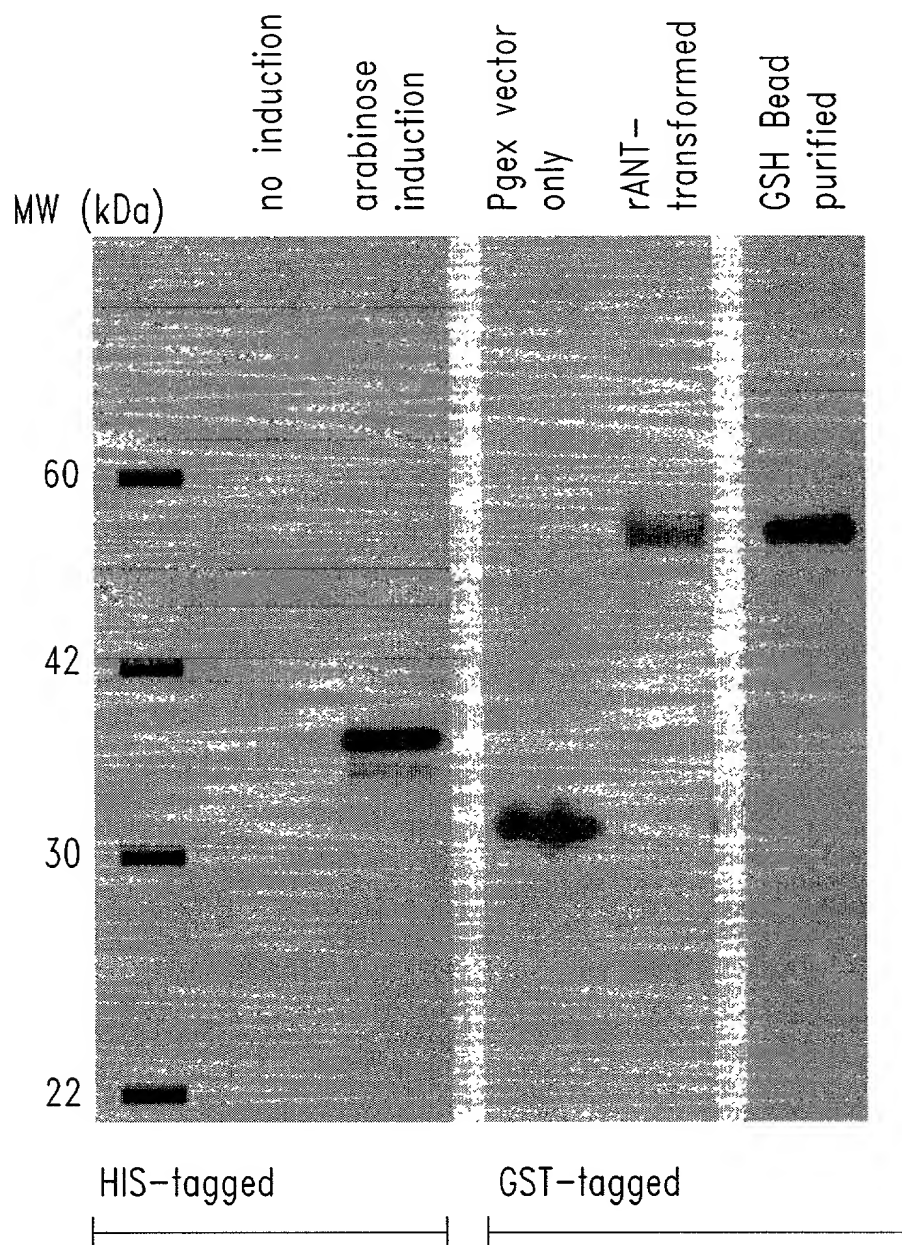


Fig. 5

Title: PRODUCTION OF ADENINE NUCLEOTIDE TRANSLOCATOR (ANT), NOVEL ANT LIGANDS AND SCREENING ASSAYS THEREFOR

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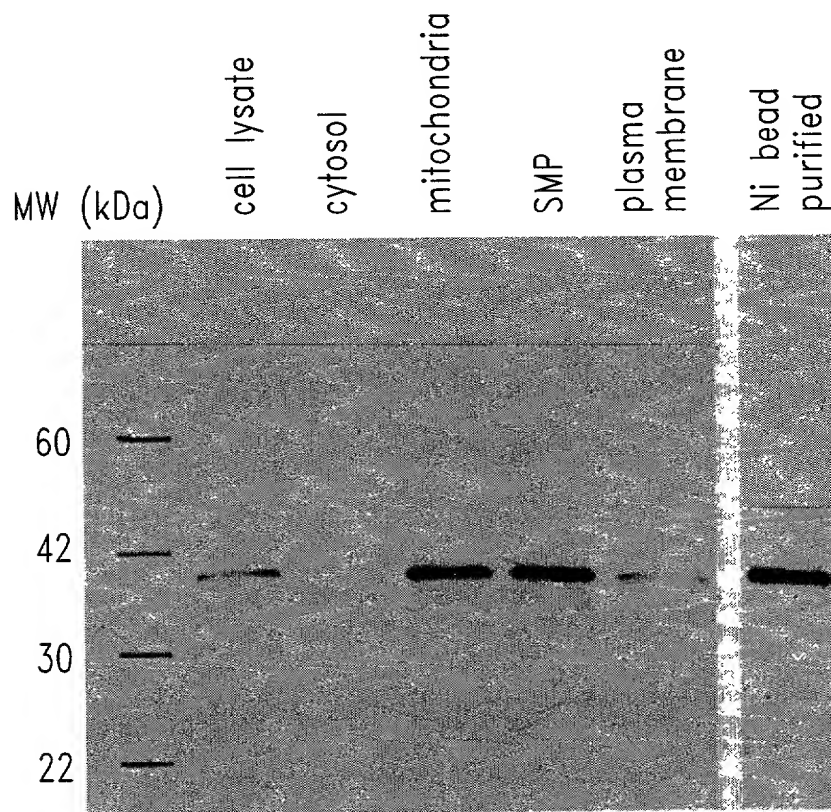


Fig. 6

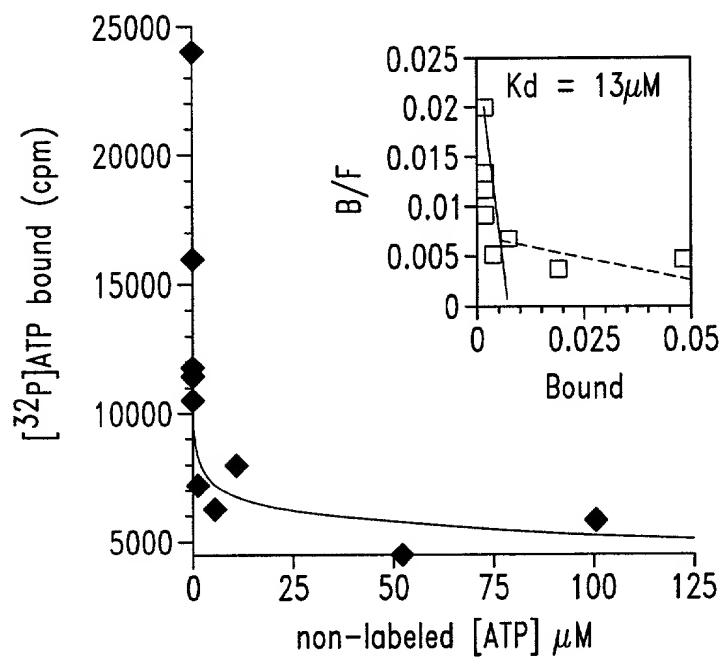


Fig. 7

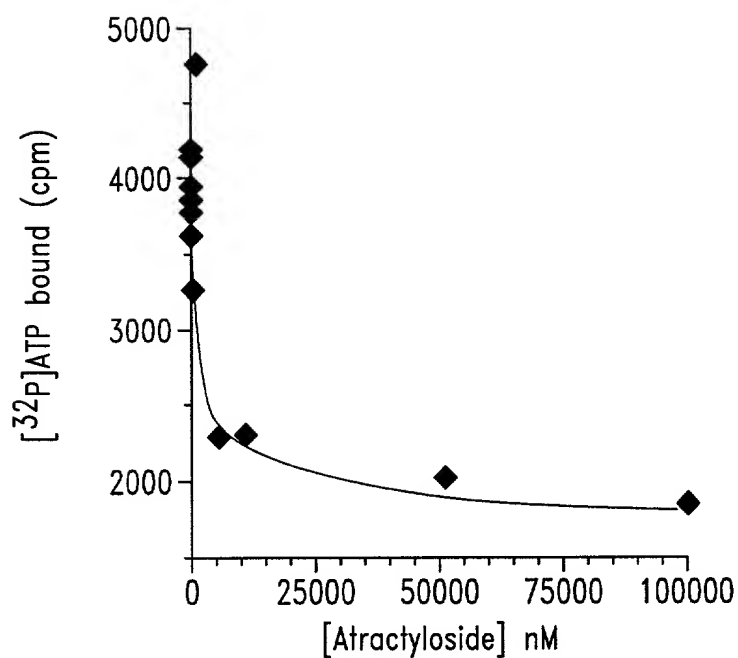


Fig. 8

Title: PRODUCTION OF ADENINE NUCLEOTIDE TRANSLOCATOR (ANT), NOVEL ANT LIGANDS AND SCREENING ASSAYS THEREFOR

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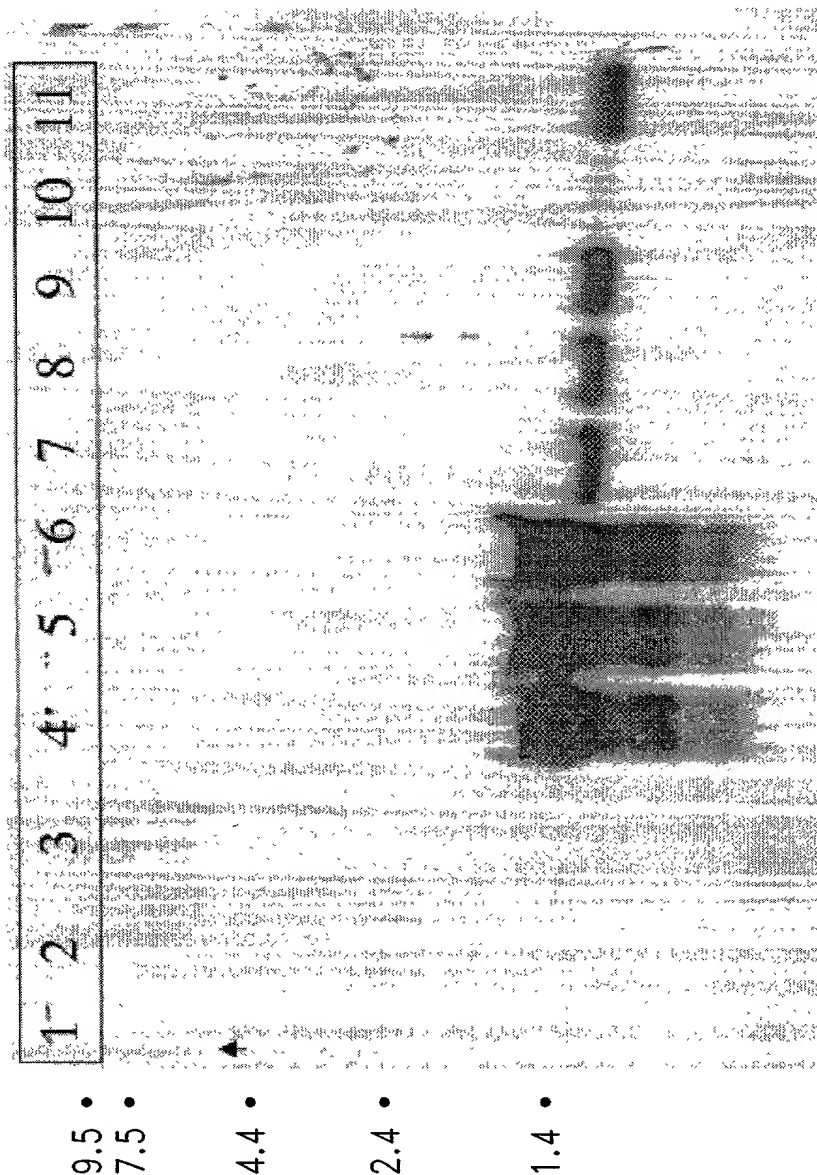


Fig. 10

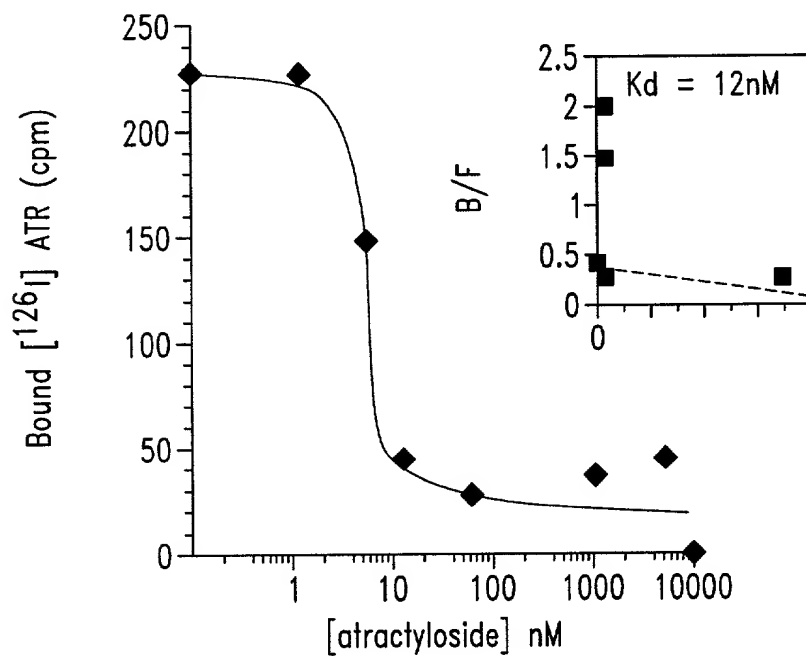


Fig. 9

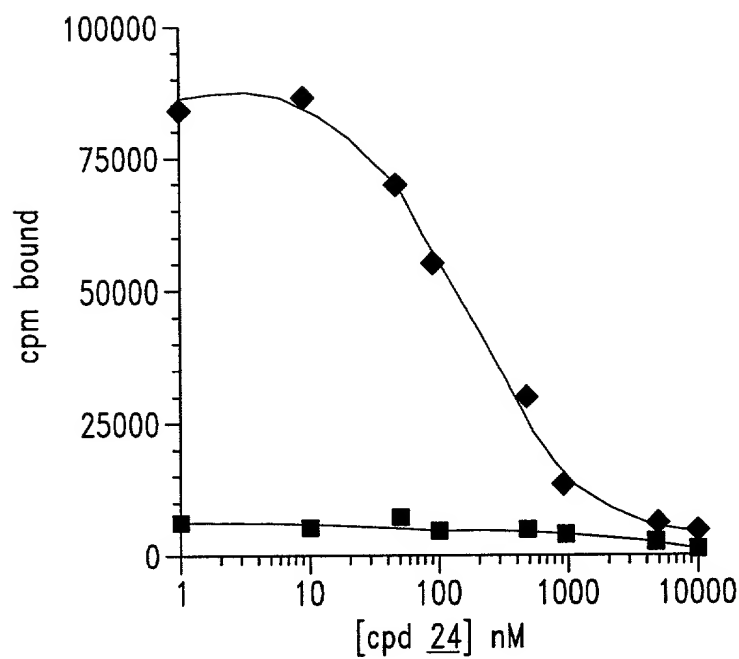


Fig. 11

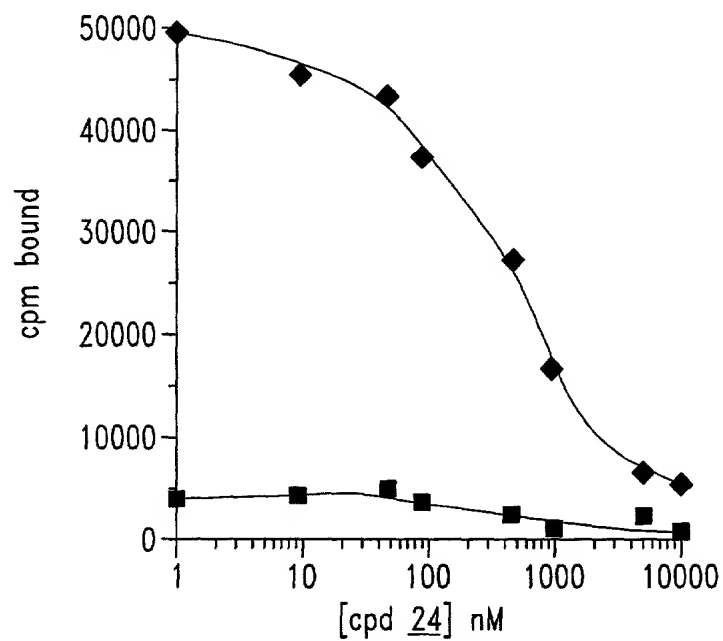


Fig. 12

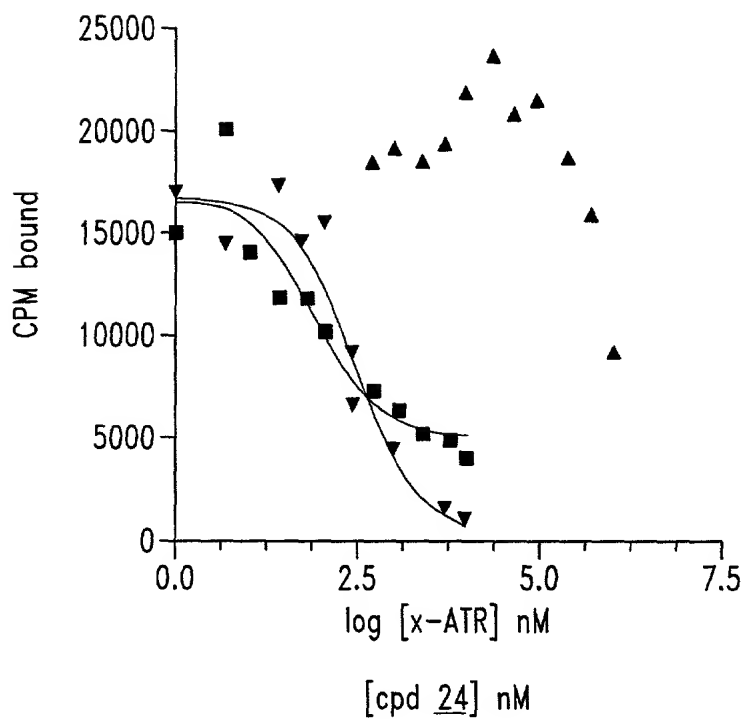


Fig. 13

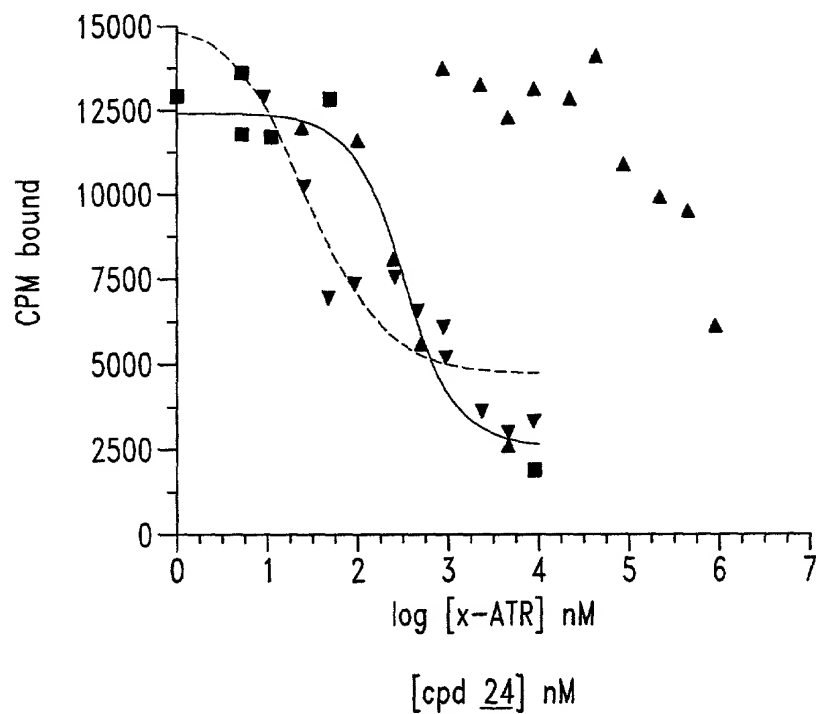


Fig. 14

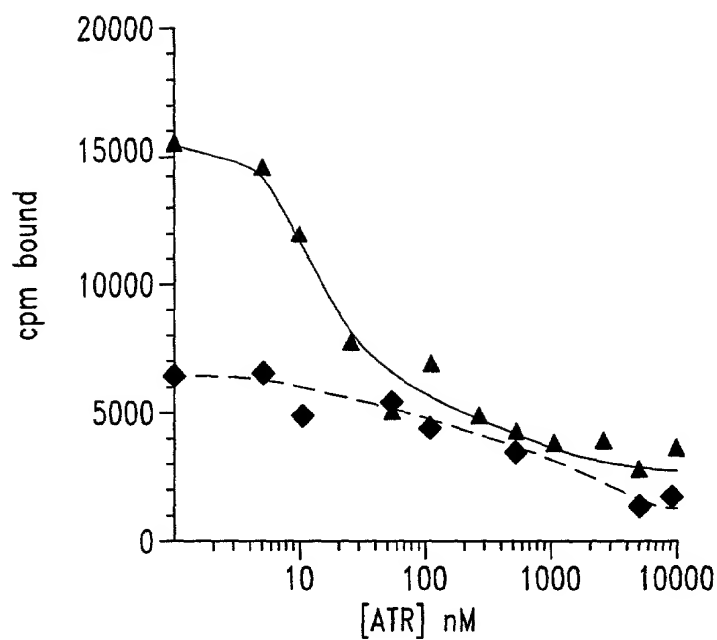


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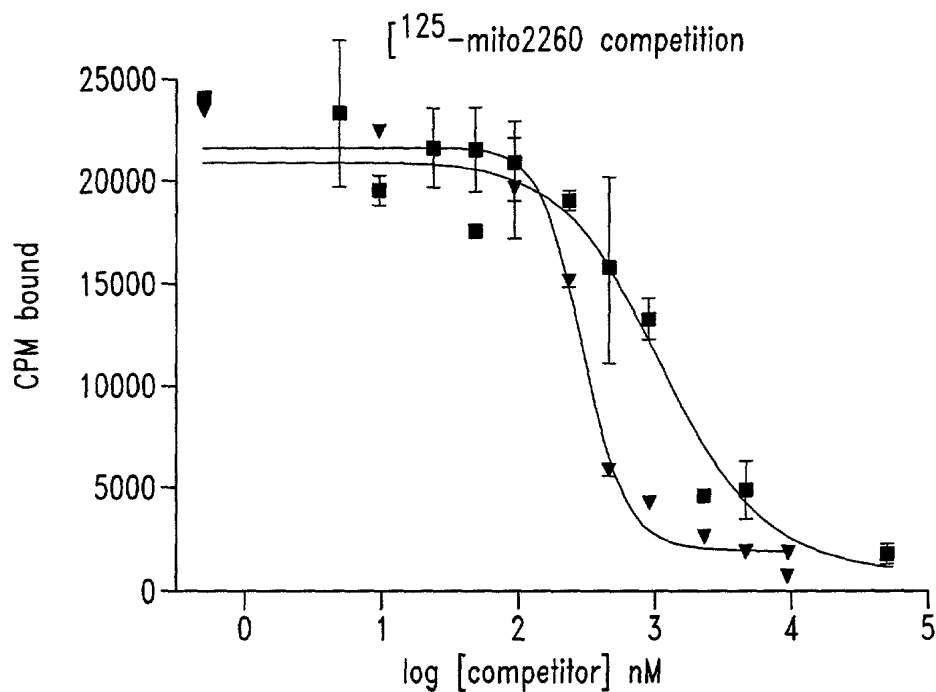


Fig. 16

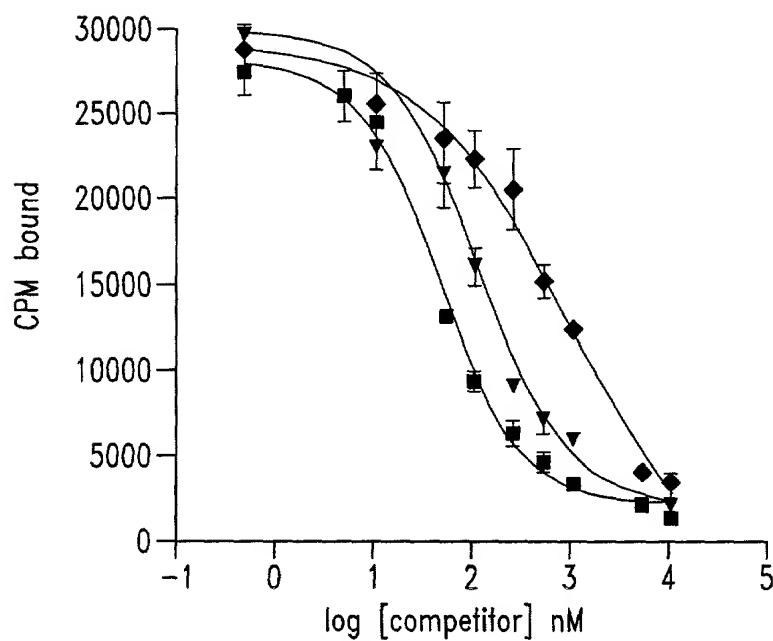


Fig. 17

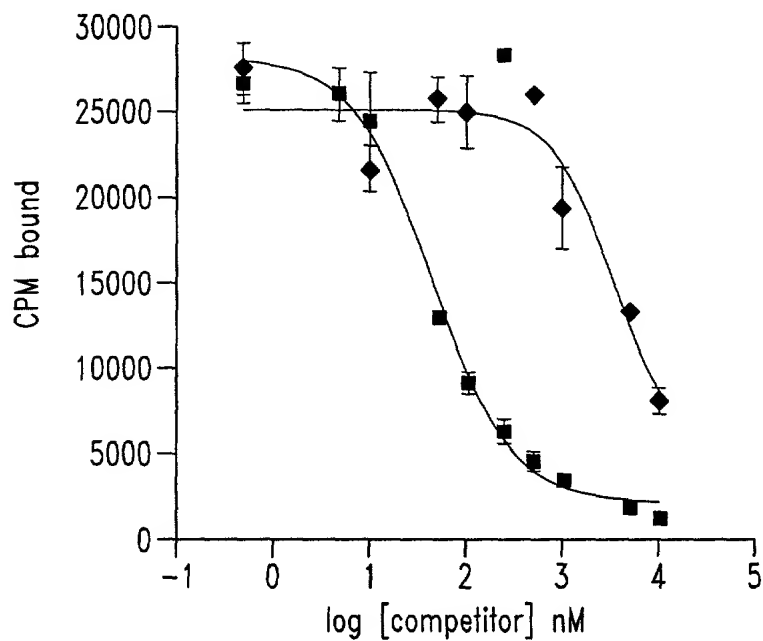


Fig. 18

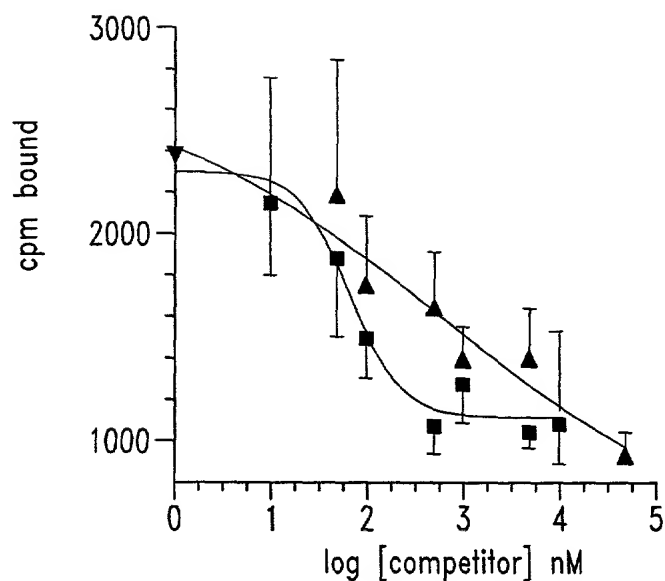


Fig. 19